#### Percentages of forecasts verified, February, 1890.

States.		States.					
Maine. New Hampshire Vermont Massachusetts Rhode Island Connecticut Eastern New York Western New York Eastern Pennsylvania Western Pennsylvania Western Pennsylvania New Jersey Delaware Maryland District of Columbia Virginia North Carolina Bouth Carolina Georgia Eastern Florida Alabama Mississippi Louisiana Texas Arkansas Tennessee	81. 10 82. 26 96 6 4 2 4 83. 6 6 0 4 6 5 3 3 3 3 5 8 7 7 7 8 8 8 7 7 7 8 8 8 7 7 7 8 8 8 7 7 7 8 8 8 8 7 7 7 8	Kentucky Ohio. West Virginia Indiana Illinois Lower Michigan Upper Michigan Wisconsin Minnesota Iowa Kansas Nebraska Missouri Colorad. North Dakota Southern California* Oregon* Washington* By elements: Weather Temperature! Monthly percentage of weather and temperature combined t	85.6 82.9 81.1 79.5 86.9 79.6 80.6 82.2 85.1 80.6 79.6 83.4 82.2 89.7 788.9 77.1 84.2 85.2 85.2				

\*In determining the monthly percentage of weather and temperature combined, the Pacific coast states are not included. †The forecasts of temperature in districts east of the Rocky Mountains for February, 1890, were made with reference to the maximum temperature alone; that is, a prediction of warmer or cooler indicated that the maximum temperature of the day designated would be higher or lower than the maximum of the previous day. ‡The monthly percentage of weather and temperature combined is determined by multiplying the percentage of weather by 6, and the percentage of temperature by 4, and dividing their sum by 10.

OFORECASTS FOR 48 AND 72 HOURS IN ADVANCE.

Appreciating the great importance that long time predictions possess for the general public the Chief Signal Officer has authorized forecasts for forty-eight and seventy-two hours, covering the second and third days in advance. Such forecasts are optional with the predicting officer, and are only made when clearly in the public interest, and cover, in all cases, considerable areas of country, and are not confined to localities.

Percentages of verifications of forecasts made for second day

in advance. Number of predictions made: weather, 50; temperature, 44. Percentages of verifications: weather, 63.2; temperature, 84.3. Weather and temperature combined, 71.0. For third day in advance. Number of predictions made: weather, 7; temperature, 7. Percentages of verifications: weather, 100.0; temperature, 14.3; weather and temperature combined, 65.7.

CAUTIONARY SIGNALS FOR FEBRUARY, 1890.

Statement showing percentages of justifications of wind signals for the month of February, 1890:

Wind signals.—(Ordered by Lieutenant W. A. Glassford.)
Total number of signals ordered, one hundred and ten; justified as to velocity, wholly, seventy-six, partly, seven; justified as to direction, one hundred and seven. Of the signals ordered, sixty-three were cautionary, of which forty were wholly, and three were partly justified, and forty-seven were storm signals. of which thirty-six were wholly, and four partly justified. Twenty-eight signals were ordered for easterly winds, of which twenty-seven were justified, and eighty-two were ordered for westerly winds, of which eighty were justified. Percentage of justifications, 75.5.

Cold-wave signals.—(Ordered by Assistant Professor T. Russell.)—Total number of signals ordered, four hundred and twelve; justified, two hundred and twenty-three. Percentage of justifications, 54.1.

Percentages of local verifications of weather and temperature signals reported by directors of the various State Weather Services for February, 1890.

States.	Weather.	Tem- perature.	States.	Weather.	Tem- perature.
Illinois Indiana Kansas Michigan Minnesota Missouri	84.0 83.1 83.6 72.0	80·3 82·0 82·4 76·2 78·0 79·0	Nebraska New Jersey Ohio Oregon Pennsylvania South Carolina	82.0 79.0 80.0	88.3 86.2 82.0 85.0 78.0

#### STATE WEATHER SERVICES.

[Temperature in degrees Fahrenheit; precipitation, including melted snow, in inches and hundredths.]

The following extracts and summaries are republished from reports for February, 1890, of the directors of the various state weather services:

Temperature.—The average temperature was 10 above the normal. Highest monthly mean, 61.4, at Mobile; lowest monthly mean, 47.9, at Guntersville; maximum, 84, at Butler, 26th and 27th; minimum, 24, at Double Springs, 9th; greatest local monthly range, 54, at Butler, Fayette, and Tuscumbia; least local monthly range, 21, at Guntersville.

Precipitation.—The average precipitation for the state was 2.14.

Precipitation.—The average precipitation for the state was 2.14 above the normal; greatest monthly, 12.10, at Fayette; least monthly, 2.06, at Bermuda. Wind.—Prevailing direction, south.—P. H. Mell, Signal Corps, Auburn,

director.

Temperature.—The mean temperature was 6.9 above that of the same month last year; highest monthly mean, 57.0, at Texarkana; lowest monthly mean, 44.3, at Lead Hill; maximum, 81, at Lead Hill, 24th; minimum, -4. at Winslow, 28th; greatest local monthly range, 76, at Lead Hill, Pine Bluff, and Winslow; least local monthly range, 50, at Little Rock.

Precipitation.—The average precipitation for the state was 4.36 above the average of last year. Greatest monthly, 11.08, at Conway; least monthly, 4.95, at Dallas.—M. F. Locke, Commissioner of Agriculture, Little Rock, director; W. U. Simons, Sergeant, Signal Corps, assistant.

### OCCUPADO.

Temperature. - The monthly mean was 3 above the average for the last three years. Highest monthly mean, 88.0, at Durango; lowest monthly mean, 13.0, at Climax; maximum, 80, at Lamar and Las Animas, 4th; minimum, -27, at Breckenridge, 28th; greatest local monthly range, 100, at Breckenridge; least local monthly range, 49, at Rifle Falls.

Precipitation.—The average for the state was somewhat in excess of the average of the last three years; greatest monthly, 4.40, at Aspen; least

monthly, 0.03, at Wigwam and Fort Morgan.

Wind.—Prevailing direction, west.—Prof. F. H. Loud, Colorado Springs, director; W. S. Miller, Corporal, Signal Corps, assistant.

🚺 ILLINOIS.

Temperature.—The mean for the month was 5.9 above the normal of the past fifteen years; highest monthly mean, 44:0, at Golconda; lowest monthly mean, 29.5, at Sycamore; maximum, 78, at Jordan's Grove, 17th; minimum, zero, at Riley and Quincy, 21st and 28th; greatest local monthly range, 70, at Collinsville, Jordan's Grove, and White Hall.

Precipitation—The average for the month was 0.48 below the normal of the past twelve years; greatest monthly, 7.47, at Golconda; least monthly, 1.00, at Gibson City.

Wind .- Prevailing direction, northwest .- John Craig, Sergeant, Signal Corps, Springfield. in charge.

Temperature.—Like the preceding months of this winter, February was warm throughout; highest monthly mean, 45.3, at Marengo; lowest monthly mean, 33.5, at Angola; maximum, 78, at Huntingburgh, 4th; minimum, 6, at La Fayette, 9th; greatest local monthly range, 60, at La Fayette; least local monthly range, 49, at Richmond and Angola.

Precipitation.—The average for the state was 1.65 in excess of the normal; greatest monthly, 12.12, at Huntingburgh; least monthly, 1.40, at Marion.

Wind.—Prevailing directions, southwest and northwest.—Prof. H. A. Huntingburgh;

Wind. - Prevailing directions, southwest and northwest. - Prof. H. A. Huston, La Fayette, director; C. F. R. Wappenhans, Sergeant, Signal Corps, assistant.

KANSAS.

KANSAS.

Temperature.—The temperature was generally above the normal, the excess for the state being 2.2; highest monthly mean, 39.2, at Oswego; lowest monthly mean, 23.9, at Allison; maximum, 89, at Richfield, 4th; minimum, —14, at Scott City, 27th; greatest local monthly range, 99, at Scott City; least local monthly range, 82, at Morse; greatest daily range, 49, at Weskan, 4th, least daily range, 8 at Leavenwert 27th. 4th; least daily range, 3, at Leavenworth, 27th.

Precipitation.—The average for the state was 0.64 below the normal, the

deficiency being general throughout the state, the average not being reached

anywhere; greatest monthly, 1.00, at Oswego and Manhattan; least monthly, 0.12, at Richfield.

Wind,-Prevailing direction, north.-Prof. J. T. Lovewell, Topeka, director; T. R. Jennings, Sergeant, Signal Corps, assistant.

# O KENTUCKY.

Temperature.-The average for the state was 8 above the normal for February; maximum, 86, at Princeton, 11th; minimum, 16, at Ashland, 9th; greatest monthly range, 68, at Princeton; least monthly range, 45, at Millersburgh.

Precipitation.—The average for the state was 3.50 in excess of the normal;

greatest monthly, 12.50, at Bowling Green; least monthly, 2.47, at South Fork. Snow storms were quite general on the 22d and 23d.

Wind.—Prevailing direction, south.—Dr. E. A. Grant, Louisville, director,

Frank Burke, Sergeant, Signal Corps, assistant.

LOUISIANA.

Temperature. - The average for the month was 8 above the normal; highest monthly mean, 66.8, at Port Eads; lowest monthly mean, 55.6, at Coushatta; maximum, 101, at Cameron, 25th; minimum, 20, at Farmerville and Lake Charles, 28th; greatest local monthly range, 70, at Cameron; least local monthly range, 31, at Jonesville.

Precipitation.—There was a general deficiency throughout the state; greatest

monthly, 8.69, at Vidalia; least monthly, 1.82, at Mandeville.

Wind.—Prevailing direction, south.—R. E. Kerkam, Sergeant, Signal Corps, New Orleans, in charge.

MICHIGAN. The features of the month were the continued high temperature, the light

rainfall, and an almost total absence of snow in the southern half of the state. Temperature.—The mean was 5.9 above the normal of fifteen years; highest monthly mean, 37.5, at Benton Harbor; lowest monthly mean, 18.3, at Atlantic; maximum, 66, at Benton Harbor, 4th; minimum, -11, at Sault de Ste. Marie, 19th; greatest local monthly range, 60, at Mottville; least local monthly range, 83, at Alma, Ann Arbor, Marshall, and Olivet, 4th; least daily range, 1, at Ionia, 28th.

Precipitation.—The average was 0.82 below the average of fifteen years;

greatest monthly, 5.17, at Marquette; least monthly, 0.77, at Flint.

Wind.—Prevailing directions, southwest and northwest.—N. B. Conger,

Sergeant, Signal Corps, Lansing, director.

MINNESOTA.

Temperature.—The mean was about normal in the central counties, from 3 to 4 above the normal in the southern portion of the state, while in the ex-3 to 4 above the normal in the southern portion of the state, while in the extreme northwest there was a deficiency of 6 to 7; highest monthly mean, 23.8, at La Crosse, Wis.; lowest monthly mean, —8.7, at Saint Vincent; maximum, 53, at La Crosse, Wis., 4th; minimum, —36, at Saint Vincent, 26th, and at Pokegama Falls, 28th; greatest local monthly range, 78, at Pokegama Falls; least local monthly range, 58, at Farmington, and at La Crosse, Wis.; greatest daily range, 49, at Saint Vincent, 1st; least daily range, 49, the Crosse, Wis., 17th.

Precipitation.—The precipitation reported from Saint Vincent was 50 per cent. in excess; all other stations having a record covering a long period of years report deficiencies; greatest monthly, 1.28, at Minneapolis; least

monthly, 0.02, at Morris.

Wind.—Prevailing direction, northwest.—John Healy, Private, Signal Wind.—Prevanna Corps, Saint Paul, in charge.

MISSISSIPPI.

Temperature.—The mean was 7.4 above the normal; highest monthly mean, 66.6, at Macon; lowest monthly mean, 50.2, at Batesville; maximum, 87, at Vaiden, 3d; minimum, 22, at Booneville, 21st.

Precipitation.—The average was 2.11 above the normal for the month; greatest monthly; 12.11, at Rienzi; least monthly, 2.15, at Moss Point.

Wind.—Prevailing directions, south in the southern part of the state, and north in the northern.—R. B. Fulton, Signal Corps, University, director.

#### METEOROLOGICAL REPORT OF THE MISSOURI STATE BOARD OF AGRICULTURE.

Temperature.—Highest monthly mean, 44.6, at Cairo, Ill.; lowest monthly mean, 44.6, at Protein. 24th: minimum, —8, at mean, 28.3, at Craig; maximum, 81, at Protem, 24th; minimum, —8, at Conception, 28th; greatest local monthly range, 78, at Springfield; least local monthly range, 57, at Cairo, Ill.

Precipitation.—Greatest monthly, 7.57, at Cairo, Ill.; least monthly, 0.82,

at Hannibal.

Wind.—Prevailing direction, northwest.—Levi Chubbuck, Secretary of State Board of Agriculture, Columbia, director; A. L. McRae, Sergeant, Signal Corps, assistant.

The month was generally tarm, with little rain or snow.

Temperature.—The mean for southeastern Nebraska was about three degrees above the normal; the maximum, 74, occurred in the southern part of the state, and the minimum, -27, in the northern part; these extremes were

higher and lower than our records show for any preceding February.

\*\*Crecipitation\*\* Only one station, Valentine, reports over an inch of precipitation; a strip extending through the northern and northeastern parts of the state had over half an inch, while along the southern border there was generally but a trace.

Wind .- Prevailing direction, northwest .- Prof. Goodwin D. Swezey, Crete, director; G. A. Loveland, Sergeant, Signal Corps, assistant.

🎤 NEVADA.

February has been exceptionally cold and stormy throughout the state. Temperature.—The mean temperature was 8.8 below the normal; maximum; 88.2, at El Dorado Canyon, 5th; minimum, —41, at Elko, 27th; highest monthly mean, 55.8, at El Dorado Canyon; lowest monthly mean, 20.2, at Ruby Hill; greatest local monthly range, 99, at Elko; least local monthly range, 47.5, at Palmetto; greatest mean daily range, 32.3, at Elko; least mean daily range, 15.8, at Palisade.

Precipitation.—The average was 0.66 above the normal; greatest monthly, 4.80, at Ruby Hill; least monthly, trace, at Gold Mountain.

Wind.—Prevailing direction, south.—Prof. Chas. W. Friend, Carson City, director, H. E. Williams, Coronal Signal Company of the content of

director; H. E. Wilkinson, Corporal, Signal Corps, assistant.

#### NEW ENGLAND METEOROLOGICAL SOCIETY

The abnormal warmth of the winter season continued through this month, when the departure from the normal temperature was +5.2, which was almost as great as in January, +5.4, and in December, +6.8. The precipitation was close to the normal, but the snowfall was deficient.

Temperature.—Highest monthly mean, 37, at Block Island; lowest monthly mean, 18.8, at Kent's Hill; maximum, 70, at Olneyville, 5th; minimum, -20, at West Milan, 23d; greatest local monthly range, 74, at West Milan; least local monthly range, 43, at Nantucket; greatest daily range, 52, at Stratford, 11th; least daily range, 0, at Lunenburgh and Weathersfield Centre, 28th.

Precipitation. - Greatest monthly, 6.13, at Jacksonville; least monthly, 1.50,

at Block Island.

Wind .- Prevailing direction, northwest .- Prof. William H. Niles, Boston Mass., president; Prof. Winslow Upton, Providence, R. I., secretary; L. G. Schultz, Sergeant, Signal Corps, assistant.

NEW JERSEY.

Temperature.—The mean was 8.4 above the normal; highest monthly mean, 44.1, at Cape May C. H.; lowest monthly mean, 36. at Tenafly; maximum, 76, at Beverly, 18th; minimum, 14, at Gillette and Junction, 14th and 21st, respectively; greatest local monthly range, 57, at Beverly; least local monthly range, 44, at Billingsport, Ocean Gity, and Tenafly; greatest daily range, 40, at New York City, 7th; least daily range, 0.2, at Readington, Union, Billingsport and Newark, on the 1st, 4th, 6th. and 28th, respectively.

Precipitation.—The average was 0.79 above the normal; greatest, 5.32, at

South Orange; least, 2.43, at Atlantic City.

Wind.—Prevailing directions, northwest and southwest.—E. W. McGann,
Sergeant, Signal Corps, New Brunswick, in charge.

#### NEW YORK.

Temperature.—The temperature was above the normal throughout the Temperature.—The temperature was above the normal throughout the state excepting at Plattsburgh and Madison Barracks, where it was below; maximum, 70, at South Kortright, 26th; minimum, —16, at Number Four, 22d; greatest local monthly range, 68, at South Kortright, Sacketts Harbor, and Madison Barracks; least local monthly range, 43, at Fort Niagara.

Precipitation.—The rainfall was generally above the average, excepting at Albany, Alfred Centre, Palermo, Setauket, and White Plains, where deficiencies are recorded.

ciencies are reported.

Wind .- Prevailing direction, northwest .- Prof. E. A. Fuertes, Ithaca, director; I. W. Brewer, Private, Signal Corps. assistant.

NORTH CAROLINA.

Temperature.—The mean was 7 above the normal; highest monthly mean, 58.4, at Wilmington; lowest monthly mean, 43.0, at Highlands; maximum, 82, at Washington, 25th; minimum, 11, at Highlands, 10th; greatest local monthly range, 57, at Marion, Va., Highlands, and Douglas; least local monthly range, 34, at Hatteras.

Precipitation.—The average was 0.25 below the normal. The rainfall was considerably in excess in the western portion of the state, and deficient in the

considerably in excess in the western portion of the state, and deficient in the central and eastern portions; greatest monthly, 9.28, at Highlands; least

monthly, 1.58, at Weldon.

Wind.—Prevailing direction, southwest.—Dr. Herbert B. Battle, Raleigh, director; C. F. von Herrmann, Sergeant, Signal Corps. assistant.

#### NORTH AND SOUTH DAKOTA.

Temperature.—The mean temperature was 8 below the normal; highest monthly mean, 22.5, at Rapid City, S. Dak.; lowest monthly mean, —1.1, at Gallatin, N. Dak.; maximum, 66, at Rapid City, S. Dak., 12th; minimum, —43, at Fort Buford, N. Dak., 26th; greatest local monthly range, 93, at Rapid City, S. Dak.; least local monthly range, 70, at Alexandria. S. Dak. Precipitation.—The mean was about 0.26 below the normal; greatest monthly, 0.75, at Spearfish, S. Dak.; least monthly, trace, at Clark, S. Dak. Wind.—Prevailing direction, northwest.—S. W. Glenn, Sergeant, Signal County in charge.

Corps, Huron, in charge.

**ОНІО**.

Temperature.—This was the warm t February on record in the bureau. The mean temperature was 9.2 above the eight-year average, and 4.5 above the mean of 1887, the highest previously recorded; maximum, 78, at Hanging Rock, 4th; minimum, 5, at Wauseon, 9th. This is the only February since the opening of the bureau in 1882 that minimum temperature below zero has not been reported. Greatest daily range, 46, at Logan, 17th; least daily range, 2, at Cleveland, 9th.

Precipitation.—The mean was 1.43 above the average for February; greatest monthly, 7.22, at Hanging Rock; least monthly, 2.90, at Toledo.

Wind.—Prevailing direction, southwest.—Prof. B. F. Thomas, Columbus, director; Lieut. Charles E. Kilbourne, secretary; C. M. Strong, Corporal, Signal Corps, assistant.

() OREGON.

The month was marked by extremely low temperature in the latter part, excessive precipitation in the first part, and floods in the Willamette, Umpqua, and Rogue rivers during the first eight days.

Temperature.—The mean was 2.7 below the normal; maximum, 67, at

Toledo; minimum, —30, at Silver Lake.

Precipitation.—The average was 3.00 above the normal; greatest monthly, 23.68, at Ellensburgh; least monthly, 1.38, at Heppner. Snow fell in all sections of the state, from trace in the central portion of Willamette Valley to 28 inches at Joseph.

Wind .- Prevailing direction, southwest .- Hon. H. E. Hayes, Master State Grange, Oswego, director; B. S. Pague, Sergeant, Signal Corps, assistant.

## () PENNSYLVANIA.

Temperature.—The mean was about 8 above the normal, and 14 above that Temperature.—The mean was about 8 above the normal, and 12 above that of the corresponding month of 1889; highest mouthly mean, 42.1, at Uniontown; lowest monthly mean, 30.2, at Dyberry; maximum, 79, at New Bloomfield, 26th; minimum, zero, at Dyberry, 23d; greatest daily range, 42, at Dyberry and Honesdale, 23d; least daily range, 2, at Le Roy, 19th, Rimersburgh, 15th, Annville, 4th, and Columbus, 12th.

Precipitation.—The average was nearly normal, and its distribution was approximately approximately

even throughout the state.

Wind.—Prevailing direction, west.—Under direction of the Franklin Institute, Philadelphia; T. F. Townsend, Sergeant, Signal Corps, assistant.

SOUTH CAROLINA.

Temperature.—Highest monthly mean, 61.4, at Hardeeville; lowest monthly mean, 52.2, at Spartanburgh; maximum, 83, at Hardeeville, 25th and 26th; minimum, 21, at Spartanburgh, 21st; greatest local monthly range, 35, at Port Royal.

Precipitation.—The rainfall was a little less than the normal; greatest

monthly, 6.03, at Walhalla; least monthly, 0.85, at Conway.

Wind.—Prevailing direction, southwest.—Hon. A. P. Butler, Columbia, director; J. W. Cronk, Private, Signal Corps, assistant.

#### TENNESSEE.

The month was charactered by many abnormal meteorological features, the principal of which were the high winds, the great amount of precipitation,

the principal of which were the high winds, the great amount of precipitation, and the high temperature.

Temperature.—The mean was 7.5 above the normal, and it is the highest mean during the past seven years; highest monthly mean, 52, at Chattanooga; lowest monthly mean, 47, at Riddleton, Rugby, and Trenton; maximum, 79, at Memphis, 24th; minimum, 18, at Hohenwald, 9th; greatest local monthly range, 60, at Hohenwald; least local monthly range, 42, at Rogersville; greatest daily range, 38, at Springdale, Hohenwald, and Riddleton, 11th, 16th, and 28th, respectively; least daily range, 3, at Memphis, 6th and 8th, Greeneville and Florence Station, 6th, Fayetteville, 7th, and Lawrenceburgh, 8th.

Precipitation.—The precipitation was nearly 4.00 in excess of the normal of the past seven years, and it was the greatest February average in that time; greatest monthly, 15.75, at Lawrenceburgh; least monthly, 6.40, at Cog Hill.

Wind.—Prevailing directions, south and southwest.—J. D. Plunket, M. D., Nashville, director; H. C. Bate, Signal Corps, assistant.

Nashville, director; H. C. Bate, Signal Corps, assistant.

TEXAS.

Temperature.—The month was warm from the 1st to the 27th, and the mean temperature was considerably in excess of the normal; highest monthly

mean temperature was considerably in excess of the normal; highest monthly mean, 64.0, at Corpus Christi; lowest monthly mean, 89.3, at Panhandle; maximum, 89, at Brownsville, 27th; minimum, —2, at Panhandle, 28th; greatest local monthly range, 79, at Panhandle; least local monthly range, 86, at Houston.

Precipitation.—The precipitation was nearly normal, except east of the ninety-seventh meridian, where it was from 2.00 to 5.00 in excess; greatest monthly, 12.85, at Longview; least monthly, 0.02, at El Paso.—D. D. Bryan, Galveston, director; I. M. Cline, Sergeant, Signal Corps, assistant.

Meteorological record of Army post surgeons, voluntary, and other co-operating observers, February, 1890.

Stations.	Temperature. (Fahrenheit.)			O <sub>e</sub>	Stations.	Temperature. (Fahrenheit.)			á
	Zg.	O É	Mean.	Precip'	Deat 10.10.	Max.	Min.	Mean	Precip'n.
Alabama.  Bermuda *†	83 79  77 .81 82	24	59·7 64·0 56·5 55·3	Ins. 1.21 4.28 9.44 9.42 8.54 11.42 5.11 6.72 4.35 11.61 7.97 6.55	Arizona—Cont'd. Ash Springs. Banghart's* Benson* Bisbee. Casa Grande* Cooley's Springs†. Dragoon. Eagle Pass. Fort Apache Fort Bowie Fort Huachuca Fort Grant. Fort MoDowell Fort MoDowell Fort Mojaye	80 72 64 74 87 80	0 33 18 27 40 22 11 21 22 21 22 25	47.8 42.6 48.5 56.1 38.8 41.2 49.4 43.8 52.4 54.2	Ins. 0.53 1.00 0.20 0.61 2.79 0.43 0.51 1.92 0.10 0.46 0.55 1.33
Ash Creek	l. <b></b> .		l	0.28	Gila Bend	80 66	30 34	52.8 55.9	0.40

Meterological	record of	poluntary	observers.	&cContinued.

,		Temperature. (Fahrenheit.)		į	Stations.	Temperature. (Fahrenheit.)			'n,'n	
,	Stations.	Max.	Min.	Mean	Precip'	O. C.	Max.	Min.	Mean.	Precip
	Arizona-Cont'd.	o	0	٥	Ins.	California—Cont'd.	0	0	0	Ins.
ı	Holbrook	74 74 83	22	46.0	0.25	Glen Ellen	70	24 28	47.4	7·49-
,	Maricopa Natural Bridge		34	58.6	3.50	Grass Valley Haywards	63	32	45.0	3.99
	Pantano •	78	32	50.7	0.75	Hollister	58	30	55.6 36.6	2·15. 9·91
•	San Carlos San Simon	88 96	18 30	51.0	I.40 T.	Hydesville † Indio •	63 98	24 30	43.4	0.06
;	Show Low		27	51.4	3.10	Indio Ione Iowa Hill Jolon	60 67	24	44·I 40·8	3.75
	Teviston			47.8	1.31 T.	Joion	65	28	42.3	4.59
	Texas Hill • Tip Top †	89			6.06	Keene Kingsburgh King City	62	30	43.2	1.97
	Tip Top † Tucson (1)† Tucson (2)*	79 63	26 43	51.6	0.76	Truight a munding.	00	36	52.9	3.01
	Volunteer Springs . Walnut Grove	75	-27	20.7	2 · 20 4 · 50	La Grange * Lathrop * Laurel *	70	20 32	45·9 50·7	3.77
•	Walnut Ranch	82	25	51.8	0.08	1 Lewis Creak	168	31	47.9	9.10
	Willow Springs Yuma*		42	57.3	1.74 0.86	Livingston Long Beach	65 88	33 28 38	46.8 55.0	1.61
,	Arkansas.	l	*-							4·91
	Arkansas City † Camden †	78	24	54·0 50·4	5.58 6.54 11.08	Los Angeles* Los Banos (1)* Los Banos (2) Los Gatos (2)	68	35 30	53·4 48·0	1.49
	Conway Dallas	79	20 8		4.95	DOS GRIOS (5)		35	46.5	7.83
	Dardanelle Forrest City †	76	26	54.3	7.09	Mammoth Tank Martinez Marysville	84 59	41 28	45.7	0·54 6·00
•	Fultont Harrisburgh	74	20	47.4	5·75 8·47	Mendocino	62	39	47.2	4.65 6.98
	Helena (1)† Hot Springs	 78	 26	53.2	9.30 5.91	Menio Park*	65 72	30 32	47.8	3·27 1·50
ĺ	Lead Hill Little Rock B'ks	81 79	5 20	44·3 52·4	5.32 6.42	Merced Modesto Mojave	66	25 23	44.1	1.03
,	Lonoke	77	22	53.8	6.20 5.10	Montague •	72 58 60	24	45·4 38·5	0.58 6.05
	Monticello Newport(1)† Osceola	76 	20		12.59	Monterey (Hotel del Monte)	İ	32	47.9	2.67
i	Ozone †	79 70 80	28 7	49.2	7.73	Mount Hamilton	68 61	28 18	48.7 36.8	6.60
	Pine Bluff† Stuttgart †	79	24 21	53·5 51·0	8.35	Napa* National City t	65 79 68	25 35	49·7 54·1	6.59 2.73
	Texarkana† Washington†	80 78	10 19	57·0 51·3	5.82	Newark *	68 83 68	34 28	50.6 50.7	3·34 4·41
	Winslow#1 California.	72	<b>–</b> 4	45-1	5.01	Nilog #	68	34 32	48. I .52. 7	3.25
,	Alcade *	68 62	33 36	48.6 47.6	5·93 4·42	Norwalk.* Oakland(1)* Oakland(2)*	74 82 63	36 30	53. I 47. 7	3.42 1.08
1	Almaden	72	28	48.8 58.3	5.92 1.54	Oakland(2)* Oakland(3)	66	32	49.2	5·72 5·45
.	Anaheim* Anderson	80 67	34 26	46-2	5.93	Uriand	68	35 30	46.6	5.90 1.63
	Angel Island Antioch •	67 68	31 35 28	48·3 48·0	2.97	Oroville	64. 70	30 30	47·9 48·4	5.95
	Aptos	68	28	49.0	4.60 14.78	Paso Robles •	77 66	29 23	51.2 44.0	2.83 5.40
	Arcata	76 70	34 24	50·2 44·0	1.19 3.96	Placerville	72 69	30 25	48.7	4.90 6.60
	Bakersfield * Barstow †	67	33 23	49·2 47·6	0.16 0.15	Pad Pluge	79 85	35	52.0 49.4	2.70 3.28
۱	Beaumont	77 68	24	47·7 48·4	4.74	Redding * Rocklin * Rumsey *	68 70	33 30	46.2	6.76
	Belmont Benicia Barracks	65 67	31 29	46.9	4.85		70	35 31	47.0	3.01 4.52
Ì	Berkeley	68 61	30 32	46. I	0.73 5.70	Sacramento(2)*	64	25 34 32	43.3	4.02 2.95
	Bishop Creek* Boca *	00	-21 26	41·4 27·2	0.30 5.40	Sacramento(2)* Salinas (1)* Salinas (2)* Salton *	69 <i>f</i>	30	46.7d 46.2	3.03 2.74
1	Boulder Creek Brentwood	67	26 35	46·0 53·7	3.35			30 30	57·3 50·0	1.48
1	Brighton*	72 63	32 30	50·7 49·7	2.06	San Ardo* San Diego B'ks	78 I	27 39	46.7 54.7	3·59 2·11
	Cactus*	99	49 33	65.2 48.2	0.55 1.15	San Gabriel *	81	34 32	51.8 48.7	1.77
١	Calistoga	65	24	43·5 48·7	4.78	San Mateo *	60 67	30 28	44.7	4.39
-	Castroville	65 74	33 40	52. I	3.33 3.63 2.51	San Mateo * San Miguel * San Pedro * Santa Ana *	77 80	38	54.9	3.13 1.56
	Chico	66 40	28 10	46·3 29·9	14.90	Santa Barbara (1).	80	36 34	55·3 52·6	1.66 2.96
1	Colfax * Colton *	<i>.</i> l	24	42.3	1.33 8.00	Santa Barbara (2)*. Santa Clara *	69 68	40 32	52·4 49·4	3·38 3·35
İ	Corning	92 78	30 28	55.2 49.1	2.28	Santa Cruz* Santa Margarita*	72 63	34 23	52.0 38.6	4·90 7·72
l	Davisville		31 30	50·7 49·6	3.69	Santa Maria Santa Monica*	76	30 39	51·4   54·2	3.64 2.03
1	Downey	65	23 40	41.6 57.2	1.51	Santa Paula* Santa Rosa*	69 66	36 28	55·6 46·9	2.00 4.74
1	Dunnigan	68	33	47.4	3.62 5.67	Selma Seven Palma*	64	29 42	48.2	0.94
ļ	Elmira*	72	32 32	51.5	5.84	Shingle Springs *	6r	25 16	39.6	6.70
	Emigrant Gap •	48	28	33.3	9.80	Miggon #	57 47	2	34.7	18.30 9.33
1	Emigrant Gap Esperanza Evergreen	07		47.7	3.98 4.86	Soledad Sonoma	• • • • • [ •	26	46.8	2.53 12.87
l	Farmington Felton	73 70 85	28 30	46.6	7.11	South Side	72 78	29 32	51.2	3.35
	Ferndale*	[	29 24	52·5 43·9	2.72	Spadra	59 87	30 32	45·5 51·5	3·73 1·59
	Florence •	83 68	35 31	54·3 46·8	1.13 5.90	Steeles	74	33	50.0	4.66 1.66
1	Fort Bidwell	51	-12 24	29.1	3·97 5·58	Stockton (2) * Summit *	66	31 25		
	Fort Gaston Fort Mason Fresno •	81	35	48.4	4·47 0·65	Susanville* †	35 70	32	48.5	4.50
1	Fresno Fruto Georgetown†	68	30 30	54·2 48·3	1.94	Tehachapi	54 58	-10 14	35· I	4.71 0.70
	Gilroy	OR	18 28	40.4	8.96 5.62		65 71	38 26	47.2	1.05 5.83
•	Girard	65 '	25 '	41.9 '	1 · 20	10M168 #	56	16	36.7	••••